THE COMMISSIONER OF PATENTS AND TRADEMARKS, Washington, D.C.

Enclosed for filing is the patent application of Inventor: GUDRUN VANDEGINSTE

FOR: DEMONSTRATING AN EFFECT OF A SIGNAL-PROCESSING OPERATION BY A SIGNAL-PROCESSING DEVICE

ENCLOSED ARE:

- Appointment of Associates; [X]
- Information Disclosure Statement, Form PTO-1449 and copies of ſΧÌ documents listed therein;
- Preliminary Amendment; (X)
- [X] Specification (8 Pages of Specification, Claims, & Abstract):
- [X] Declaration and Power of Attorney:
- [X]
- (1 Page of a []fully executed [X]unsigned Declaration); Drawing (1 sheet of []informal [X]formal sheets); Certified copy of European Application Serial No. 98202656.9 ſΧÌ
- [X] Authorization Pursuant to 37 CFR §1.136(a)(3)
- Other:
- Assignment to

FEE COMPUTATION

| CLAIMS AS FILED | | | | | | | | | | |
|-----------------------|--------------|-----------------|----------|-------------------------|--|--|--|--|--|--|
| FOR | NUMBER FILED | NUMBER EXTRA | RATE | BASIC FEE - \$760.00 | | | | | | |
| Total Claims | 11 - 20 = | | X \$18 = | | | | | | | |
| Independent Claims | 2 - 3 = | | X \$78 = | W | | | | | | |
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| TOTAL FILING I | \$ 760.00 | | | | | | | | | |

Please charge Deposit Account No. 14-1270 in the amount of the total filing fee indicated above, plus any deficiencies. The Commissioner is also hereby authorized to charge any other fees which may be required, except the issue fee, or credit any overpayment to Account No. 14-1270.

[]Amend the specification by inserting before the first line as a centered heading -- Cross Reference to Related Applications --; and insert below that as a new paragraph -- This is a continuationin-part of application Serial No. , filed which is herein incorporated by reference--.

CERTIFICATE OF EXPRESS MAILING

Express Mail Mailing Label No. EL 215 004 959 US Date of Deposit August 5, 1999

I hereby certify that this paper and/or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.

Laurie E. Gathman, Reg.37,520 Attorney

(914) 333-9605 U.S. Philips Corporation

580 White Plains Road Tarrytown, New York 10591

S:\ga\newtrans.wp

Patti DeMichele

Typed Name

 αUV Signature

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Atty. Docket

GUDRUN VANDEGINSTE

PHN 17,062

Serial No.

Filed: CONCURRENTLY

DEMONSTRATING AN EFFECT OF A SIGNAL-PROCESSING OPERATION BY A SIGNAL-PROCESSING DEVICE

Honorable Commissioner of Patents and Trademarks Washington, D.C. 20231

PRELIMINARY AMENDMENT

sir:

Prior to calculation of the filing fee and examination, please amend the above-identified application as follows:

IN THE CLAIMS

Please amend the claims as follows:

- Claim 3, line 1, delete "or 2".
- Claim 6, line 1, change "any one of claims 1 to 5" to
 - to --claim 1--.
- Claim 7, line 1, change "any one of claims 3 to 5""
 - to --claim 3--.
- Claim 8, line 1, change "any one of claims 1 to 7"
 - to --claim 1--.
- Claim 10, line 1, delete "or 9".

IN THE ABSTRACT

last line delete "Fig.".

REMARKS

The claims have been amended in order to reformat the claims to delete all multiple dependencies prior to calculation of the filing fee and place the instant application in standard U.S. format.

Entry of this amendment prior to calculating the filing fee is respectfully requested.

Respectfully submitted,

Laurie E. Gathman, Reg. 37,520

Attorney

(914) 333-9605

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Demonstrating an effect of a signal-processing operation by a signal-processing device.

FIELD OF THE INVENTION

The invention relates to a device for demonstrating an effect of a selected signal-processing operation as defined in the preamble of Claim 1. The invention further relates to an apparatus as defined in the preamble of Claim 8, a television receiver as defined in the preamble of Claim 10 and a method of demonstrating an effect of a selected signal-processing operation as defined in the preamble of Claim 11.

BACKGROUND OF THE INVENTION

An apparatus as defined above is disclosed in EP 0 417 728 A2. The known apparatus, e.g. a television receiver or a video recorder, comprises a user-operable control circuit for generating a sequence of commands which cause a number of functions of the apparatus to be invoked consecutively. Examples of functions invoked by the control circuit are picture-in-picture, zoom-effect, mosaic screen and features for enhancing the picture quality, such as noise filters, cross-color and interference reduction. The effects of the functions invoked by the control circuit are observable on the television screen, giving a potential buyer of the apparatus an impression of its functions.

A disadvantage of the known apparatus is that the effectiveness of the demonstration of said functions heavily depends on the video contents being received at the time of demonstration.

OBJECT AND SUMMARY OF THE INVENTION

It is an object of the invention to provide a device for demonstrating an effect of a selected signal-processing operation as defined above, which provides an improved demonstration of the signal-processing operation. To this end, a first aspect of the invention provides a device as claimed in Claim 1. A second aspect of the invention provides an apparatus as claimed in Claim 8. A third aspect of the invention provides a television receiver as claimed in Claim 10. A fourth aspect of the invention provides a method as claimed in Claim 11. Advantageous embodiments of the invention are defined in the dependent claims.

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The device for demonstrating an effect of a selected signal-processing operation as claimed in Claim 1 comprises a signal-processing device for processing incoming signals to obtain processed signals, and demonstration means, similar to the control circuit of the known apparatus, for demonstrating the effects of the processing device. A user command selects which signal-processing operation will be performed by the processing device. As an example, the processing device may be a video signal processor for processing an incoming video signal to obtain RGB signals to be supplied to a display. The user command may switch on a black-stretch feature or a noise reduction operation. Dependent on the processing operation demonstrated, a specific portion of the demonstration contents most suited for demonstrating the effect of said processing operation is retrieved from the storage means and processed by the signal-processing device before it is presented on the presentation means. In this way, it is achieved that the effect of the processing operation is demonstrated more effectively, thus convincing potential buyers of the quality of the device.

In an embodiment of the invention as claimed in Claim 2, switching means select the demonstration signals or the incoming signals to be processed by the signal-processing device in response to the user command and presented on the presentation means, thus excluding any conditions caused by the incoming signals which may diminish the effectiveness of the demonstration.

In an embodiment of the invention as claimed in Claim 3, the signal-processing device is adapted to process video signals which are presented on a display screen, said processing operation being conceived, for example, to enhance the quality of the pictures displayed. For demonstrating such a feature, a static picture especially suited for demonstrating the effect of that feature is retrieved from the storage means and presented on the display screen. For example, when demonstrating a black-stretch feature, a picture comprising grey areas is presented, and when demonstrating a comb filter, a picture comprising patterns of fine black and white lines is presented. For demonstrating features which are intended to improve a presentation involving moving pictures, e.g. Natural Motion, a sequence of pictures can be stored in the storage means and presented consecutively as a moving video presentation. Such a moving video presentation can be iterated a number of times, to give the viewer multiple opportunities to appreciate the effect of the feature.

In an embodiment of the invention as claimed in Claim 6, it is achieved that the viewer can easily perceive the difference between the apparatus having the demonstrated feature and an apparatus not having that feature. In the case of video contents, this difference can be alternatively demonstrated by presenting the demonstration signals in a split-screen

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form, which enables the viewer to perceive the difference at a glance. The viewer could also be enabled to activate and deactivate the feature by hand during the demonstration.

In an embodiment of the invention as claimed in Claim 9, said user command comprises the operation of control means which are dedicated to control functions of the apparatus which are different from the demonstration function. Modern appliances such as VCRs and TVs often have a remote control for controlling most functions. The appliances themselves have only a few buttons for controlling the major functions, such as channel selection and volume control. A dedicated button for activating the demonstration is not desirable, because production costs would increase and the demonstration function should be preferably known to shop personnel only. This embodiment makes the demonstration function available through the operation of a particular combination of regular control buttons of the appliance, e.g. by pressing the volume-up and down buttons simultaneously, possibly for a predetermined period of time, e.g. 5 seconds. In this way, it is avoided that visitors who are not seriously interested in buying the appliance start the demonstration.

The invention is particularly suitable for a television receiver, the presentation means being the television screen or the loudspeakers, or for any other apparatus having a video output signal, such as a video recorder or DVD player, the presentation means being a built-in display or the screen of a connected television receiver. The invention is further applicable, for example, to audio equipment, in which the presentation means are the loudspeakers.

BRIEF DESCRIPTION OF THE DRAWINGS

These and other aspects of the invention will be apparent from and elucidated by way of a non-limitative example with reference to a Figure which shows a television receiver as an embodiment of the apparatus according to the invention;

DESCRIPTION OF EMBODIMENTS

The Figure shows a television receiver for receiving TV signals which are obtained via an antenna or cable network 1. A tuner 2 selects one of the received signals and demodulates it. Audio and video information from the selected signal is further processed in a signal processor 3 which comprises an audio processor 4 and a video processor 8. The audio information is processed by the audio processor 4 and presented by a loudspeaker 5. The video information is processed by the video processor 8 and presented on a display screen 9. A control unit 6 enables a user to enter commands which are processed by a microprocessor 7.

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For example, the microprocessor 7 relays commands to the tuner for selecting a TV signal, and commands to the signal processor 3 for controlling sound and picture parameters.

Furthermore, the microprocessor 7 is adapted to send audio and video information to the signal processor 3, and to control a signal switch 12, which initially selects the signals from the tuner 2 as input signals to the signal processor 3. A memory 10 is provided for storing the microprocessor instructions for performing the various functions of the television receiver. One of the functions implemented in this way is a demonstration function, the memory 10, the microprocessor 7 and the signal switch 12 thus constituting the demonstration means. The control unit 6 comprises a remote control unit (not shown) for receiving infrared signals from a remote control and a few buttons for controlling some major functions of the television receiver. The control unit 6 comprises, inter alia, a volume-up button 6a and a volume-down button 6b which enable the user to turn the volume up and down, respectively. When the user presses both the volume-up button 6a and the volume-down button 6b simultaneously for 5 seconds, the demonstration function is activated. Initially, a menu is displayed on the display screen 9 presenting a number of features which can be demonstrated, and an exit button is displayed for leaving the demonstration function. When the user selects one of the features, the picture information which is most suitable for demonstrating the selected feature is read from a memory 11, and the signal switch 12 is controlled in such a way that the picture information is selected as input signals to the signal processor 3. For example, when demonstrating a black-stretch feature, a picture comprising grey areas is presented. When a feature is selected which is intended to improve a presentation involving moving pictures, e.g. Natural Motion, a sequence of pictures is read from the memory 11 and presented consecutively as a moving video presentation. The moving video presentation is iterated a few times, giving the viewer multiple opportunities to appreciate the effect of the feature. As an example, the demonstration starts with the selected feature deactivated. After two seconds, the selected feature is activated, after another two seconds the selected feature is deactivated again, etc. This process is repeated a predetermined number of times after which the demonstration stops. Further signals, e.g. displayed or spoken text, could be provided to indicate which feature was selected and whether the selected feature is activated or deactivated at a particular moment.

Pressing either the volume-up button 6a or the volume-down button 6b stops the demonstration, and the microprocessor 7 controls the signal switch 12 to select the signals from the tuner 2 as input signals to the signal processor 3.

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 Although the invention has been described with reference to particular illustrative embodiments, variations and modifications are possible within the scope of the inventive concept. Thus, for example, storage means could be applied which are incorporated in a separate device connected in some way to the apparatus. Instead of demonstration contents ready to be presented, the storage means could contain the contents in an encoded or compressed form, e.g. an algorithm for generating a graphical picture which is particularly suited for showing the effect of the demonstrated feature. The memory 11 may be any storage device, such as a floppy disk or a hard disk, and may be combined with the memory 10. The user command does not need to comprise the operation of buttons on the apparatus, but could also be entered by means of one or more buttons on a remote control, or by means of a joystick or a mouse.

Although the embodiments are described with reference to video processing in a TV, the invention is also suitable for audio processing, or for signal-processing in other apparatuses which have to present information, such as VCRs, computer monitors, etc.

In summary, the invention relates to a device for demonstrating an effect of a selected signal-processing operation. The device comprises signal-processing means (3) for processing incoming signals to supply said signals to presentation means (9), and demonstration means (7, 10, 12) for demonstrating the selected processing operation. The device further comprises storage means (11) for storing a demonstration signal which is specifically suitable for effectively demonstrating the feature. Upon activation of the demonstration means, a demonstration signal which is most suitable for demonstrating said processing operation is read from the storage means, processed by the signal-processing means and presented on the presentation means.

CLAIMS:

1. A device for demonstrating an effect of a selected signal-processing operation, said device comprising a signal-processing device for processing an incoming signal to supply a processed signal to presentation means, and demonstration means for controlling the signal-processing device to perform said selected signal-processing operation in response to a user command, **characterized in that** the demonstration means further comprise storage means for storing a demonstration signal selected to allow an effective demonstration of the particular processing operation, and directing means for directing the demonstration signal to the signal-processing device in response to said user command.

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2. A device as claimed in claim 1, **characterized in that** the directing means comprise switching means for supplying, in response to said user command, either the incoming signals or the demonstration signals to the signal-processing device.

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3. A device as claimed in claim 1 or 2, in which incoming signals are video signals and said presentation means comprise a display screen, **characterized in that** the storage means are adapted to contain a static picture.

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4. A device as claimed in claim 3, **characterized in that** the storage means are adapted to contain further pictures, the demonstration means being adapted to present said picture and said further pictures consecutively as a moving video presentation.

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5. A device as claimed in claim 4, **characterized in that** the demonstration means are further adapted to repeat the moving video presentation automatically.

6. A device as claimed in any one of claims 1 to 5, **characterized in that** the demonstration means are further adapted to activate and deactivate said processing operation alternately during the presentation of the demonstration signals.

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A device as claimed in any one of claims 3 to 5, **characterized in that** the demonstration means are further adapted to present the demonstration signals in a split-screen form, one part of the display screen showing a presentation of the demonstration signals having said processing operation activated and another part of the display screen showing a presentation of the demonstration signals having said processing operation deactivated.

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- 8. An apparatus for processing an audio or video signal, comprising a device as claimed in any one of claims 1 to 7.
- An apparatus as claimed in 8, comprising a number of user operable means for controlling functions of the apparatus, **characterized in that** said user command comprises the operation of a single one or a combination of said control means for a predetermined period of time.
- 10 10. A television receiver implemented as an apparatus as claimed in claim 8 or 9.
 - 11. A method of demonstrating an effect of a selected signal-processing operation, the method comprising the steps of processing an incoming signal to supply a processed signal to presentation means, and controlling said selected signal-processing operation to be performed in response to a user command, **characterized in that** the method comprises a step of reading a demonstration signal from storage means, which demonstration signal has been selected to allow an effective demonstration of said selected processing operation, and a step of processing the demonstration signal in response to said user command.

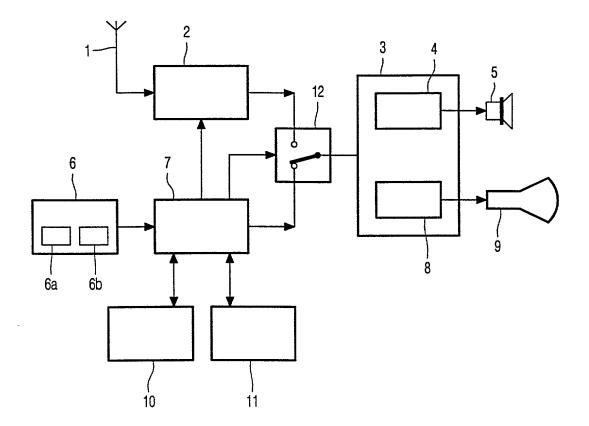
ABSTRACT:

The invention relates to a device for demonstrating an effect of a selected signal-processing operation. The device comprises signal-processing means (3) for processing incoming signals to supply said signals to presentation means (9), and demonstration means (7, 10, 12) for demonstrating the selected processing operation. The device further comprises storage means (11) for storing a demonstration signal which is specifically suitable for effectively demonstrating the feature. Upon activation of the demonstration means, a demonstration signal which is most suitable for demonstrating said processing operation is read from the storage means, processed by the signal-processing means and presented on the presentation means.

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Fig.



DECLARATION and POWER OF ATTORNEY

ATTORNEY'S DOCKET NO.: PHN 17.062

| I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by the amendment(s) referred to above. I acknowledge the duty to disclose information which is material to patentability of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a). I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed: PRIOR FOREIGN APPLICATION(S) COUNTRY APP.NUMBER DATE OF FILING (DATE,MONTH, YEAR) PRIORITY CLAIMED UNDER 35 U.S.C. 119 Europe 98202656.9 Of August 1998 Yes I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the | As a below named inventor, I hereby declare that: My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled "Demonstrating an effect of a signal-processing operation by a signal-processing device" the specification of which (check one) is attached hereto. | | | | | | | | | | | |
|--|---|----------------------------------|--|-----------------------|--------------------------|---------------------|----------|--------------------------------|----------|--|--|--|
| amended by the same and is nave reviewed and understand the contents of the above-identified specification, including the claims, as amended by the same and the contents of the above-identified specification, including the claims, as amended by the amendmental preferred to above. 77, Code of Federal Regulations, §1, 56(a). Interest of the application of the profit of the profi | was filed onas Application Serial Noand was amended on(if applicable). | | | | | | | | | | | |
| Tacknowledge the duty to disclose information which is material to patentability of this application in accordance with Title 37, Code of Federal Regulations, \$1.56(a). I hereby claim foreign priority benefits under Title 35, United States Code, \$ 119 of any foreign application for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filling date before that of the application on PRIOR FOREIGN APPLICATION(S) COUNTRY | I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by the amendment(s) referred to above | | | | | | | | | | | |
| Thereby claim foreign priority benefits under Title 35, United States Code, \$119 of any foreign application(s) for patent or inventor's certificate histor below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed: RION FOREIGN APPLICATION(S) APP.NUMBER DATE OF FILING (DATE,MONTH, YEAR) PRIORITY LAMBE UNDER 35 U.S.C. 119 Europe 98202656.9 07 August 1998 Yes I hereby claim the benefit under Title 35, United States Code, \$120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the amanter provided by the first paragraph of Title 35 United States Code, \$120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the amanter provided by the first paragraph of Title 35 United States Code, \$120 of any United States application(s) listed below and, insofar as the subject under of each of the claims of this application is not disclosed in the prior United States application in the anatenal or PCT international filing date of this application. APPLICATION SERIAL NUMBER FILING DATE STATES APPLICATION(S) STATUS (PATENTED, PENDING, ABANDONED) APPLICATION SERIAL NUMBER FILING DATE STATUS (PATENTED, PENDING, ABANDONED) APPLICATION SERIAL | I acknowledge the duty to disclose information which is material to patentability of this application in accordance with Title | | | | | | | | | | | |
| COUNTRY APP.NUMBER DATE OF FILING DATE, MONTH, YEAR) PRIORITY CLAIMED UNDER 35 U.S.C. 119 Europe 98202656.9 07 August 1998 Yes Intercly claim the benefit under Title 35, United States Code, §120 of any United States publication in the manner provided by the first paragraph of Title 35 United States Code, §120 of any United States publication in the manner provided by the first paragraph of Title 35 United States Code, §112. I acknowledge the duty to discess application in the manner provided by the first paragraph of Title 35 United States Code, §112. I acknowledge the duty to discess application in the manner provided by the first paragraph of Title 35 United States Code, §112. I acknowledge the duty to discess application in the manner provided by the first paragraph of Title 35 United States Code, §112. I acknowledge the duty to discess application and the national or PCT international filing date of this applications. PRIOR UNITED STATES APPLICATION(S) APPLICATION SERIAL NUMBER FILING DATE TITLE TO THE TITLE TO THE TITLE THE | I hereby claim foreign priority benefits under Title 35. United States Code, 8,119 of any foreign application(s) for patent or | | | | | | | | | | | |
| Europe 98202656.9 07 August 1998 Yes I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35 United States Code, §121, I acknowledge the duty to disclose material information in the interpretation of Pederal Regulations, §1,36(a) which occurred between the Hiling date of the prior application and the national or PCT international filing date of the prior application and the national or PCT international filing date of the prior application and the national or PCT international filing date of the prior application and the national or PCT international filing date of the prior application and peliefe are believed to be true; and further that these statements were made with the knowledge that willful false statements and the the prior application and peliefe are believed to be true; and further that these statements were made with the knowledge that willful false statements and such; willful false statements may jeopardize the validity of the application or any patent issued thereon. POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this auch; and prior application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number) Agg Tamoshunas, Reg. No. 27,677 Age E. Haken, Reg. No. 26,002 ENDI CORRESPONDENCE TO: Corporate Patent Counsel; (Inventor's Signature: Full Name of Inventor and the prior application of the prior application of the prior applications of the prior applications of the prior application and the prior application and the prior applications and the p | filing date before that of the application on which priority is claimed: | | | | | | | | | | | |
| Europe 98202656.9 07 August 1998 Yes I hereby claim the benefit under Title 35, United States Code, §120 of any United States application (s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner, provided by the first paragraph of Title 35 United States Code, §120 of any United States application in the manner, provided by the first paragraph of Title 35 United States Code, §120 of any United States application in the manner, provided by the first paragraph of Title 35 United States Code, §120 of any United States application in the manner provided by the first paragraph of Title 35 United States code and the Indianal Code of the prior application and the Indianal Code of the prior application and the Indianal Code of Title 18 of the prior application and the Indianal Code of the Prior application and the Indianal Code of Title 18 of the Prior application and the Indianal Code of Title 18 of the United States Code and that Indianal Code of the Indianal Code of Title 18 of the United States Code and that Indianal Code of Title 18 of the United States Code and that Indianal Code of Title 18 of the United States Code and that Indianal Code of Title 18 of the United States Code and that Indianal Code of Title 18 of the United States Code and that Indianal Code of Title 18 of the United States Code and that Indianal Code of Title 18 of the United States Code and that Indianal Code of Title 18 of the United States Code and that Indianal Code of Title 18 of the United States Code and that Indianal Code of Title 18 of the United States Code and that Indianal Code of Title 18 of the United States Code and that Indianal Code of Title 18 of the United States Code and that Indianal Code of Title 18 of the United States Code and that Indianal Code of Title 18 of the United States Code and that Indianal Code of Title 18 of the United States Code and that Indianal Code of Title 18 of the United States Code and that Indi | COUNTRY | Y APP.NUMBER | | MBER | | DATE OF FILING | | PRIORITY | | | | |
| Thereby claim the benefit under Title 35. United States Code. \$120 of any United States application(s) listed below and insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35 United States Code. \$112.1 acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, \$1,56(a) which occurred between the filling date of the prior application and the national or PCT international filling date of this application: PRIOR UNITED STATES APPLICATION(S) APPLICATION SERIAL NUMBER FILING DATE STATUS (PATENTED, PENDING, ABANDONED) Thereby declare that all statements made herein of my own knowledge are true and that all statements made on information and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may prepare the validity of the application or any patent issued thereon. POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number) Algorithms and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number) Last Name VANDEGINSTE First Name Gudrum Middle Name City Bruge State or Foreign Country Belgium Middle Name Full Name of Inventor Last Name First Name First Name Middle Name Middle Name First Name State or Foreign Country Country of Citizenship First Name State or Foreign Country Fire Code Fired Post Office Street First Name Middle Name | | | | | | (DATE, MONTH, YEAR) | | CLAIMED UNDER 35 U.S.C. 119 | | | | |
| insolar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35 United States Code, \$112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, \$1,56(a) which occurred between the filling date of the prior application and the national or PCT international fling date of this application: **PRIOR UNITED STATES APPLICATION(S)** **APPLICATION SERIAL NUMBER** **FILING DATE** **STATUS (PATENTED, PENDING, ABANDONED)** **I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and beatlife so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. **POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number) **Alago Tamoshunas, Reg. No. 27,677 **Alago Tamoshunas, Reg. No. 26,902* **SEND CORRESPONDENCE TO: Corporate Patent Counsel; U.S. Philips Corporation; 580 White Plains Road; Direct TELEPHONE CALLS TO: (manner and telephone No.) (914) 332-0225 **Dated:** **Inventor's Signature:** **Full Name of Inventor** **Evidence & City Brugge** **State or Foreign Country** **Evidence & City Brugge** **State or Country** **State or Country** **State or Country** **Signature:** **Full Name of Inventor** **Inventor** **Signature:** **Full Name of Inventor** **Inventor** **Signature:** **Full Name of Inventor** **Inventor** **Signature:** **Full Name of City State or Foreign Country** **Signature:** **Full Name of City State or Foreign Country** **Full Name of City State or Foreign Country** **Full Name of City | Europe | 98202656.9 | | .9 | ****** | 07 August 1998 | | Yes | | | | |
| insolar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35 United States Code, \$112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, \$1,56(a) which occurred between the filling date of the prior application and the national or PCT international fling date of this application: **PRIOR UNITED STATES APPLICATION(S)** **APPLICATION SERIAL NUMBER** **FILING DATE** **STATUS (PATENTED, PENDING, ABANDONED)** **I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and beatlife so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. **POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number) **Alago Tamoshunas, Reg. No. 27,677 **Alago Tamoshunas, Reg. No. 26,902* **SEND CORRESPONDENCE TO: Corporate Patent Counsel; U.S. Philips Corporation; 580 White Plains Road; Direct TELEPHONE CALLS TO: (manner and telephone No.) (914) 332-0225 **Dated:** **Inventor's Signature:** **Full Name of Inventor** **Evidence & City Brugge** **State or Foreign Country** **Evidence & City Brugge** **State or Country** **State or Country** **State or Country** **Signature:** **Full Name of Inventor** **Inventor** **Signature:** **Full Name of Inventor** **Inventor** **Signature:** **Full Name of Inventor** **Inventor** **Signature:** **Full Name of City State or Foreign Country** **Signature:** **Full Name of City State or Foreign Country** **Full Name of City State or Foreign Country** **Full Name of City | | | | | | | | | | | | |
| ABANDONED) ABANDONED ABANDONE Ball tals tatements made eo information and trast these statements were made with the knowledge that willful false statements and the like knowledge that willful false statements and the like the policy of the application or any patent issued thereon. POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number) Alge Tamoshunas, Reg. No. 27,677 BEND CORRESPONDENCE TO: Corporate Patent Counsel; (name and telephone No.) (914) 332-0222 BEND CORRESPONDENCE TO: Corporate Patent Counsel; (name and telephone No.) (914) 332-0222 Dated: Inventor's Signature: Full Name of Inventor Alge Tamoshunas, Reg. No. 27,677 Alge Tamoshunas, Reg. No. 27, | manner provided by the first paragraph of Title 35 United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1,56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application: | | | | | | | | | | | |
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| Dated: Inventor's Signature: Inventor's Signature: City Brugge State or Foreign Country Belgium State or Country Belgium Dated: Inventor's Signature: Inventor's Signature: City Brugge State or Foreign Country Belgium Country of Citizenship Belgium Dated: Inventor's Signature: Inventor's | Jack E. Haken, Reg. | eg. No. 27,677 No. 26,902 | | | | | | | | | | |
| Full Name of Inventor Residence & City Brugge City Brugge State or Foreign Country Belgium City B-8000 Brugge Dated: Full Name of Inventor Last Name Last Name First Name Middle Name Country of Citizenship Belgium Zip Code Inventor's Signature: Full Name of Inventor City State or Foreign Country B-8000 Brugge Middle Name Middle Name City State or Foreign Country Country of Citizenship City Code State or Country Country of Citizenship City State or Foreign Country Country of Citizenship Post Office Street City State or Foreign Country Country of Citizenship | U.S. Philips Corporation; 580 White Plains Road; | | | | (name and telephone No.) | | | S TO: | | | | |
| Inventor Residence & City Brugge Citizenship Post Office Address Dated: Full Name of Inventor Residence & City City State or Foreign Country Belgium City B-8000 Brugge Inventor's Signature: Full Name of Inventor City State or Country Belgium City B-8000 Brugge Inventor's Signature: Full Name of Inventor City State or Foreign Country Citizenship City State or Country Country of Citizenship Country of Citizenship City State or Foreign Country Country of Citizenship City State or Country Country of Citizenship | Dated: | | | Inventor's Signature: | | | | | | | | |
| Citizenship Post Office Address Dated: Full Name of Inventor Residence & City City City State or Foreign Country State or Foreign Country Citizenship Post Office City B-8000 Brugge Inventor's Signature: Middle Name City Country of Citizenship Post Office State or Foreign Country Citizenship State or Country Country of Citizenship City City City City City City City Cit | | Last Name VANDEGINSTE | | | First Name Gudrun | | N | Middle Name | | | | |
| Address B-8000 Brugge Belgium Zip Code Dated: Inventor's Signature: Full Name of Inventor Last Name First Name Middle Name Residence & City State or Foreign Country Country of Citizenship Post Office Street City State or Country Zip Code | | City Brugge | | | | | | | | | | |
| Full Name of Inventor Residence & City Post Office Street State or Foreign Country State or Country State or Country State or Country Tip Code | | Street Pathoekeweg 11 | | | | | | | Zip Code | | | |
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Atty. Docket

GUDRUN VANDEGINSTE

PHN 17,062

Serial No.

Filed: CONCURRENTLY

DEMONSTRATING AN EFFECT OF A SIGNAL-PROCESSING OPERATION BY A SIGNAL-PROCESSING DEVICE

Honorable Commissioner of Patents and Trademarks Washington, D.C. 20231

APPOINTMENT OF ASSOCIATES

sir:

The undersigned Attorney of Record hereby revokes all prior appointments (if any) of Associate Attorney(s) or Agent(s) in the above-captioned case and appoints:

Laurie E. Gathman

(Registration No. 37,520)

c/o U.S. PHILIPS CORPORATION, Intellectual Property Department, 580 White Plains Road, Tarrytown, New York 10591, his Associate Attorney(s)/Agent(s) with all the usual powers to prosecute the above-identified application and any division or continuation thereof, to make alterations and amendments therein, and to transact all business in the Patent and Trademark Office connected therewith.

ALL CORRESPONDENCE CONCERNING THIS APPLICATION AND THE LETTERS PATENT WHEN GRANTED SHOULD BE ADDRESSED TO THE UNDERSIGNED ATTORNEY OF RECORD.

Respectfully,

Jack E. Haken, Reg. 26,902

Attorney of Record

Dated at Tarrytown, New York this August 5, 1999.